Index of Claims

|          | <br>        | <br> |  |
|----------|-------------|------|--|
| 11111111 | 10 10511 10 |      |  |
|          |             |      |  |
|          |             |      |  |
|          |             |      |  |
|          |             |      |  |

Application/Control No.

09/974,827

Examiner

Andrew C. Lee

Applicant(s)/Patent under Reexamination

YOKOYAMA ET AL.

Art Unit

2664

| √ | Rejected |   | - | (Through numeral)<br>Cancelled |  | N | Non-Elected  | - | Α | Appeal   |
|---|----------|---|---|--------------------------------|--|---|--------------|---|---|----------|
| = | Allowed  | : | ÷ | Restricted                     |  | ı | Interference |   | 0 | Objected |

| Cla  | aim      | Date     |              |  |  | _        | Cla          | iim  |              |  | Date Claim |       |          |                 |          |          |          |                 | Date     |                |          |          |          |       |            |              |  |  |             |  |          |  |              |                 |
|--|----------|----------|--------------|--|--|----------|--------------|--|--------------|--|------------|-------|----------|-----------------|----------|----------|----------|-----------------|----------|----------------|----------|----------|----------|-------|------------|--------------|--|--|-------------|--|----------|--|--------------|-----------------|
| Final  | Original | 3/21/06  |              |  |  |          |              |  |              |  |            | Final | Original |                 |          |          |          |                 |          |                |          |          |          | Final | Original   |              |  |  |             |  |          |  |              |                 |
|  | 1        | 1        |              |  |  |          |              |  |              |  |            |       | 51       |                 |          |          | İ        |                 |          |                | İ        |          | Ĺ        |       | 101        |              |  |  |             |  |          |  |              |                 |
|  | 2        | -        |              |  |  |          |              |  |              |  |            |       | 52       |                 |          |          |          |                 |          | Ī              |          |          |          | ·     | 102        |              |  |  |             |  |          |  |              |                 |
|  | 3        | 4        |              |  |  |          |              |  |              |  |            | ,     | 53       |                 |          |          |          |                 |          |                |          |          |          |       | 103        |              |  |  |             |  |          |  |              |                 |
|  | 4        | 4        |              |  | Ĺ  |          |              |  |              |  |            |       | 54       |                 |          |          |          |                 |          |                |          |          |          |       | 104        |              |  |  |             |  |          |  |              |                 |
|  | 5        | =        |              |  |  |          |              |  |              |  |            |       | 55       |                 |          |          |          |                 | $\perp$  |                |          |          | L        |       | 105        |              |  |  |             |  |          | <u>                                     </u> | ot           |                 |
|  | 6        | √        |              |  |  |          |              | <u> </u>   |              |  | L          |       | 56       | Ш               | _        |          |          | _               | $\dashv$ |                | _        | _        | L        |       | 106        |              |  |  |             |  |          |  | لـــا        | Ш               |
|  | 7        | =        |              | L  |  | <u> </u> | _            |  |              |  |            |       | 57       |                 |          |          |          | _               | _        | _              | _        | _        |          |       | 107        |              |  |  |             |  |          | Ш  |              |                 |
|  | 8        | =        |              |  |  | _        | <u> </u>     |  | <u> </u>     |  | _          |       | 58.      |                 |          |          |          | _               | _        |                |          | _        | -        |       | 108        |              |  |  |             |  |          |  |              |                 |
| <u> </u>   | 9        | 1        |              | _  | ┢  | <u> </u> | <u> </u>     |  | <u> </u>     | <u> </u>   | _          |       | 59       | $\Box$          | _        |          |          | -               | $\dashv$ | _              | -        | _        | -        |       | 109        |              |  |  |             |  |          |  |              | Ы               |
|  | 10       | $\vdash$ |              |  | ┝  | ┡        | ┡            | -  | $\vdash$     | $\vdash$   |            |       | 60       | $\dashv$        | _        | $\dashv$ | _        | -               | $\dashv$ | _              | -        | 4        | -        |       | 110        |              | _  | _  |             | _  | _        |  | $\dashv$     | $\vdash$        |
| <u> </u>   | 11       |          |              |  | -  | -        | <u> </u>     | <u> </u>   | <b>├</b>     |  | <u> </u>   |       | 61       | $\dashv$        |          | _        |          |                 |          |                |          | _        | F        |       | 111        |              | <u> </u>   | <u> </u>   |             | _  |          | $\vdash \vdash$                              | $\vdash$     | $\vdash$        |
| <del> </del>                                     | 12<br>13 |          | _            | _  | <del> </del>                                     | $\vdash$ | -            | <del> </del>                                     | -            | -  | -          |       | 62<br>63 | $\vdash$        | $\dashv$ | $\dashv$ | -        |                 | $\dashv$ |                | $\dashv$ | $\dashv$ | -        |       | 112<br>113 | _            | $\vdash$   | $\vdash$   | H           | Ь  | -        | $\vdash$                                     |              | $\vdash$        |
| <del> </del>                                     |          |          | -            | -  | ├  | $\vdash$ | ├            | $\vdash$   | 1            | -  |            |       | 64       | $\vdash \vdash$ | +        | $\dashv$ | $\dashv$ |                 | $\dashv$ |                | +        | $\dashv$ | -        |       | 113        |              | $\vdash$   | $\vdash$   | <u> </u>    | $\vdash$   | <u> </u> | $\vdash$                                     | $\vdash$     | $\vdash$        |
| _  | 14<br>15 | -        |              | -  | ┢  | $\vdash$ | $\vdash$     | $\vdash$   | ₩            |  |            |       | 65       | $\vdash$        | $\dashv$ | $\dashv$ | -        | $\dashv$        | $\dashv$ | $\dashv$       | $\dashv$ | $\dashv$ | ŀ        |       | 114<br>115 |              |  | -  | -           |  | _        | $\vdash$                                     |              | $\vdash$        |
| <u> </u>   | 16       | $\vdash$ | $\vdash$     |  |  | ┢        | ┢            | $\vdash$   | -            | $\vdash$   | -          |       | 66       | $\vdash$        | $\dashv$ | $\dashv$ |          | -               | $\dashv$ | $\dashv$       | $\dashv$ | $\dashv$ | H        |       | 116        |              | <del> </del>                                     | -  |             |  | _        |  | -            |                 |
| <u> </u>   | 17       |          |              | $\vdash$   | $\vdash$   | ╁        | ╁            | ┢  | -            | -  |            |       | 67       | $\vdash$        |          | $\dashv$ | -        |                 | -        | $\dashv$       | $\dashv$ | -        | -        |       | 117        |              | H  |  | _           |  |          | Н  | Н            | H               |
|  | 18       | -        | -            | -  | -  | ┼─       | ╁            | ├─   |              |  | -          |       | 68       | $\vdash$        | $\dashv$ | $\dashv$ | -        |                 | -        | $\dashv$       | +        | $\dashv$ | ┢        |       | 118        |              | $\vdash$   |  |             |  |          | $\vdash$                                     | $\vdash$     | Н               |
|  | 19       | -        |              | $\vdash$   | $\vdash$   | $\vdash$ | ┢            | ┢  | $\vdash$     |  | l ⊦        |       | 69       | H               | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$        | $\dashv$ | $\dashv$       | $\dashv$ | $\dashv$ | $\vdash$ |       | 119        |              | $\vdash$   | ├─   | _           | _  | <u> </u> | $\vdash$                                     |              | Н               |
|  | 20       | ┢        |              | $\vdash$   | 1  | $\vdash$ |              |  |              |  | . ⊦        |       | 70       | $\vdash$        | $\dashv$ | _        | $\dashv$ |                 | +        | -              | $\dashv$ | $\dashv$ | ┢        |       | 120        |              | $\vdash$   | -  |             | -  | _        | $\vdash$                                     |              | $\vdash \vdash$ |
|  | 21       | $\vdash$ |              | $\vdash$   | $\vdash$   | $\vdash$ | $\vdash$     | $\vdash$   | <u> </u>     |  | <b> </b>   |       | 71       | H               | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$        | _        | ┪              | $\dashv$ | $\dashv$ | 十        |       | 121        |              | -  | -  |             | -  | _        | $\vdash$                                     | $\vdash$     | $\vdash$        |
|  | 22       |          |              |  |  |          |              | $\vdash$   |              |  |            |       | 72       | H               | $\dashv$ |          | $\dashv$ |                 | 1        | $\exists$      | +        | $\dashv$ | ŀ        |       | 122        |              | $\vdash$   |  |             |  |          | $\Box$                                       |              | П               |
|  | 23       |          |              |  | 1  | 1        | t            | t  |              |  |            |       | 73       | H               | 寸        | _        | 寸        | 一               |          | 一              | $\dashv$ | ┪        | ı        |       | 123        |              |  |  |             | -  |          | $\Box$                                       |              | П               |
|  | 24       |          |              | F  |  | T        |              | T  |              |  |            |       | 74       | П               |          |          |          | T               | 1        |                |          |          | ı        |       | 124        |              |  |  |             |  |          |  | П            | П               |
|  | 25       |          |              |  |  |          |              |  |              |  |            |       | 75       | П               |          |          |          | ヿ               |          | $\neg$         |          | $\neg$   | ı        |       | 125        |              |  |  |             |  |          | П  |              | П               |
|  | 26       |          |              |  |  |          |              |  |              |  |            |       | 76       | П               | 1        |          |          | 一               | Î        | T              | T        |          |          |       | 126        |              |  |  |             |  |          | П  | $\Box$       | П               |
|  | 27       |          |              |  |  |          |              |  |              |  |            |       | 77       |                 |          |          |          |                 |          |                |          |          |          |       | 127        |              |  |  |             |  |          |  |              |                 |
|  | 28       |          |              |  |  |          |              |  |              |  |            |       | 78       |                 |          |          |          |                 |          |                |          |          |          |       | 128        | •            |  |  |             |  |          |  |              |                 |
|  | 29       |          |              |  |  |          |              |  |              |  |            |       | 79       |                 |          |          |          |                 |          |                |          |          |          |       | 129        |              |  |  |             |  |          |  |              |                 |
|  | 30       |          |              |  |  |          |              |  |              |  |            |       | 80       |                 |          |          |          |                 |          |                |          |          |          |       | 130        |              |  |  |             |  |          |  |              |                 |
|  | 31       |          |              |  |  |          |              |  |              |  | L          |       | 81       |                 |          |          |          |                 |          |                |          |          | L        |       | 131        |              |  |  |             | •  |          |  |              |                 |
|  | 32       |          |              |  |  | <u> </u> | <u> </u>     |  | L            |  |            |       | 82       |                 |          |          |          |                 |          |                | _1       |          | L        |       | 132        |              |  |  |             |  |          |  | ш            | Ш               |
|  | 33       |          |              |  | _  | <u> </u> | _            | <u> </u>   | <u> </u>     |  | L          |       | 83       |                 |          |          |          | _               |          |                | _        | _        | L        |       | 133        |              |  |  | Ŀ           |  |          |  | $oxed{oxed}$ |                 |
|  | 34       | _        |              | _  | _  | <u> </u> | <u> </u>     | $\vdash$   | ļ            | ٠.   | <u> </u>   |       | 84       | $\sqcup$        | 4        |          | _        | _               | _        |                | _        | _        |          |       | 134        |              |  |  | <u> </u>    |  | L_       | Ш  | لـــا        | $\square$       |
| ļ  | 35       | _        |              | <u> </u>   | 1_   | <u> </u> | <u> </u>     | ऻ_   | <u> </u>     | L.   | ŀ          |       | 85       |                 |          |          |          |                 |          |                |          | _        | -        |       | 135        |              | ļ  | <u> </u>   |             |  | L        | $\vdash \vdash$                              |              | $\vdash \vdash$ |
|  | 36       | _        |              | _  | ـــ  | ↓_       | <b>├</b>     | <del> </del> -                                   | -            |  | -          |       | 86       |                 |          | _        |          | _               |          |                |          |          | -        |       | 136        |              |  | _  | <u> </u>    |  |          |  |              | $\vdash$        |
| <u> </u>   | 37       | <u> </u> |              |  | ├-   | ├        | <del> </del> |  | <del> </del> | <u> </u>   | <b> </b> - |       | 87       | $\vdash \vdash$ |          | -        | $\dashv$ |                 |          | -              | -+       | $\dashv$ | ŀ        |       | 137        | <u> </u>     | <u> </u>   | <u> </u>   | <u> </u>    | <u> </u>   | -        | $\vdash$                                     | Ш            | Н               |
|  | 38       | $\vdash$ | -            | -  | ₩  | -        | $\vdash$     | $\vdash$   | <u> </u>     | -  | -          |       | 88       | $\vdash \vdash$ | $\dashv$ | 4        | -        | $\dashv$        | -        | $\dashv$       | $\dashv$ | $\dashv$ | - }-     |       | 138        |              | <u> </u>   | $\vdash$   | <u> </u>    | <u> </u>   |          | $\vdash \vdash$                              | $\vdash$     | $\vdash$        |
| <del> </del>                                     | 39<br>40 | -        | H            | _  | ₩  | -        | $\vdash$     |  | 1            | H  |            |       | 89<br>90 | $\vdash$        | $\dashv$ | $\dashv$ |          | $\dashv$        | -        |                | $\dashv$ |          | -        |       | 139<br>140 |              | <u> </u>   | <b> </b>   |             | ⊢  | $\vdash$ | $\vdash \vdash$                              |              | $\vdash \vdash$ |
| <u> </u>   | 41       |          | $\vdash$     |  | -  | $\vdash$ | -            | -  | -            | <u> </u>   | -          |       | 90       |                 | $\dashv$ |          | -        | $\dashv$        |          |                | -+       | -        | -        |       | 140        |              |  | ┢  | <del></del> | $\vdash$   |          | $\vdash$                                     | Н            | $\vdash\vdash$  |
|  | 42       | $\vdash$ | H-           |  | +-   | $\vdash$ | $\vdash$     | ╁╾   | -            | ├─   |            |       | 92       |                 |          |          |          | -               | $\dashv$ | $\dashv$       | -+       |          | }        |       | 142        | _            | -  |  | $\vdash$    |  | -        | $\vdash$                                     | Н            | $\vdash$        |
| $\vdash$   | 43       | ├        | $\vdash$     | -  | +  | +        | -            | -  | <del> </del> | -  |            |       | 93       | $\vdash$        | -        |          |          | -               | $\dashv$ |                | $\dashv$ | $\dashv$ | 1        |       | 143        |              | <del> </del>                                     |  | <u> </u>    | <del> </del>                                     | $\vdash$ | $\vdash \vdash$                              | H            | $\vdash$        |
|  | 43       | -        | <u> </u>     | -  | $\vdash$   | $\vdash$ | -            | ┼  | ┼            | -  | -          |       | 94       | $\vdash$        |          |          |          | -               |          |                | $\dashv$ |          | }        |       | 144        | -            | $\vdash$   |  | $\vdash$    | -  | -        | $\vdash$                                     | -            | $\vdash$        |
|  | 45       | $\vdash$ | $\vdash$     |  | $\vdash$   | $\vdash$ | $\vdash$     | +  | +-           | $\vdash$   |            |       | 95       | $\vdash \vdash$ | $\dashv$ |          | $\dashv$ | $\dashv$        |          | ┪              | $\dashv$ | $\dashv$ | -        |       | 145        | -            | <del>                                     </del> | -  | -           | -  | $\vdash$ | $\vdash$                                     |              | H               |
| <u> </u>   | 46       | $\vdash$ | $\vdash$     |  | t  | t        | t            | t  | -            | H  |            |       | 96       | $\vdash$        | -        | $\dashv$ | $\dashv$ |                 | $\dashv$ | -              | $\dashv$ | $\dashv$ | ŀ        |       | 146        | <del> </del> | <del>  -</del>                                   | -  | -           | <del>                                     </del> | $\vdash$ |  |              | H               |
| <del>                                     </del> | 47       |          | <del> </del> | <del>                                     </del> | <del>                                     </del> | †        | †            | t  | $\vdash$     | $\vdash$   |            |       | 97       |                 | -        |          |          |                 | $\dashv$ | 一              | +        | $\dashv$ | ŀ        |       | 147        | <u> </u>     | <del>                                     </del> | $\vdash$   | $\vdash$    |  |          | 一  | Г            | М               |
|  | 48       | $\vdash$ | $\vdash$     | $\vdash$   | 1  | $\vdash$ | †            | <del>                                     </del> | 1            | -  | -          |       | 98       |                 | $\dashv$ | $\neg$   |          |                 |          | $\dashv$       | -1       | $\dashv$ | -        |       | 148        | _            | <del>                                     </del> | <del>                                     </del> | $\vdash$    | <del>                                     </del> | _        | П  | М            | Н               |
|  | 49       |          | Н            |  | t  | 1        | 1            | 1  | $\vdash$     |  | ╽┝         |       | .99      | $\vdash$        | $\dashv$ | $\neg$   | $\dashv$ | $\neg$          | $\dashv$ | $\dashv$       | $\dashv$ | $\dashv$ | t        |       | 149        | _            | <del>                                     </del> | $\vdash$   | <u> </u>    | $\vdash$   |          | П  |              | Н               |
| <b></b>  | 50       | T        |              |  | Ħ  | H        | t            | t  | $\vdash$     | <del>                                     </del> |            |       | 100      | $\Box$          | 一        | $\neg$   | _        | $\neg \uparrow$ | 一        | $\neg \dagger$ | 十        | $\dashv$ | ı        |       | 150        |              | 1  |  | _           |  |          | $\sqcap$                                     |              | П               |
|  | 1 20     |          | <u> </u>     | Ц  | 1  | <u> </u> | <u> </u>     | <u> </u>   | 1            | Ь  | L          |       | 100      |                 |          |          |          |                 |          |                |          |          | L        |       |            | Ц            | _  |  | Ь.          |  |          |  |              | <u></u>         |